Geomatics involve the acquisition, management and analysis of phenomena with a spatial reference. Spatial analysis finds applications in many areas, such as health, the environment, urban planning, geology, archaeology and agronomy. This programme aims to provide knowledge in spatial analysis for environmental applications. It includes studies in geographical information systems (GIS), remote sensing and physical geography. Models and theories for understanding the Earth’s climate and ecosystems are integrated with knowledge for collecting environmental information using remote sensing, storing the information in databases and theories behind GIS.

Programme modules/courses
Courses and number of credits: Core courses of the programme are Geographical Information Systems 1 (15), Geographical Information Systems 2 (15), Spatial Analysis (7.5), Internet GIS (7.5), Satellite Remote Sensing (15), Algorithms and GIS (7.5), Geographical Databases (7.5). For students that already have a strong background in this field, elective courses, e.g. Programming (15), Climate Change & Impact on Environment (15), Global Ecosystem Dynamics (15) and Greenhouse Gases & Carbon Cycle (15) could be application alternatives to the core courses. The programme ends with a Master’s degree project (30).

Career prospects
Graduates from the programme will be able to work as GIS and environmental specialists in public and private organisations. The programme is also suited for students interested in research careers.

Entry requirements and how to apply
ENTRY REQUIREMENTS
A first-cycle degree in science or engineering of at least 180 higher education credits is required (ECTS). A background from technical colleges, specialisations in land surveying, community planning, civil engineering, natural science, physical geography, geology, ecosystems analysis or similar is highly relevant for this programme. English 6/English Course B. See www.lunduniversity.lu.se for details on English proficiency levels.

HOW TO APPLY
1. Apply online: Go to www.lunduniversity.lu.se/geomatics. Click on “Apply” and follow the instructions for the online application at www.universityadmissions.se, the Swedish national application website. Rank the chosen programmes in order of preference.
2. Submit your supporting documents:
   • General supporting documents: Check what documents you need to submit (i.e. official transcripts, degree diploma/proof of expected graduation, translations, proof of English, passport) and how you need to submit them at www.universityadmissions.se.
   • Programme-specific supporting documents: When applying for this programme, you must also submit a statement of purpose and letters of recommendation with your application.
3. Pay the application fee (when applicable).

“I didn’t know that much about geomatics before, but now I love the subject. I am convinced this is the best Master’s programme at Lund University. There is a nice mixture of people and cultures here.”
Cleber Domingos Arruda from Brazil
SELECTION CRITERIA/ADDITIONAL INFORMATION

Selection of students is based on previous university/college studies and other merits such as letters of recommendation and statement of purpose.

TUITION FEES

There are no tuition fees for EU/EEA citizens. For non-EU/EEA citizens the tuition fee for this programme is SEK 145,000 per year. For details on tuition fees, see www.lunduniversity.lu.se.

About the Department of Earth and Ecosystem Sciences

At our department, we are engaged in education and research spanning a wide field of study, ranging from the Earth’s oldest geological history to ongoing processes and changes in our landscape. We investigate the formation and composition of Earth, the development of life, the effects of recent glaciations on our landscape and how climate has changed over both short and long time scales.

Our work also concerns the climate of today and the future, the interactions of ecosystems with the atmosphere, as well as applied environmental problems like polluted soils. Our diverse and cutting-edge research is well reflected in the courses and education programs that we offer, which means that after graduating our students are well prepared for the challenges of the labor market.

About Lund University

Lund University was founded in 1666 and is repeatedly ranked among the world’s top 100 universities. The University has 41,000 students and 7,500 staff based in Lund, Helsingborg and Malmö. We are united in our efforts to understand, explain and improve our world and the human condition.

Lund is Sweden’s most attractive study destination. The University offers one of the broadest ranges of programmes and courses in Scandinavia, based on cross-disciplinary and cutting-edge research. The compact university campus encourages networking and creates the conditions for scientific breakthroughs and innovations. The University has a clear international profile, with partner universities in over 70 countries.

Funding of more than SEK 5 billion a year goes to research at eight faculties, which gives us one of Sweden’s strongest and broadest ranges of research activity. Over 30 of our research fields are world-leading, according to independent evaluations.

Two of the world’s leading materials research facilities are currently under construction in Lund: the MAX IV Laboratory, inaugurated in June 2016, is the leading synchrotron radiation facility in the world, and the European research facility ESS, which will house the world’s most powerful neutron source. The two facilities will be of decisive importance for future scientific and industrial development in both materials science and life science.

Learn more at www.lunduniversity.lu.se
Ask questions and follow news at facebook.com/lunduniversity

CONTACT
Programme webpage
www.lunduniversity.lu.se/geomatics
Study Advisor
Lena Ström, lena.strom@nateko.lu.se
+46 46 222 37 46

Disclaimer: Changes may have been made since the printing of this fact sheet. Please see www.lunduniversity.lu.se for any updates.